

Original Patent

Patentee: William Carl Slemmer

Patent No.: 5,781,043

Title: DIRECT CURRENT SUM BANDGAP  
VOLTAGE COMPARATOR

Issued: July 14, 1998

Atty Dk No.: 93-C-007C2

Reissue Application

Applicant: William Carl Slemmer

Serial No.:

Title: DIRECT CURRENT SUM  
BANDGAP VOLTAGE  
COMPARATOR

Filing Date: July 14, 2000

Atty Dk No.: 93-C-007C2RE (1678-28)

**FIRST REISSUE APPLICATION DECLARATION BY THE INVENTOR**

As a below named inventor, I hereby declare:

My residence, post office address and citizenship are as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of the subject matter that is claimed in patent number 5,781,043, granted July 14, 1998, and for which a reissue patent is sought on the invention entitled:

DIRECT CURRENT SUM BANDGAP VOLTAGE COMPARATOR

the specification of which

☒ is attached hereto.

☐ was filed on \_\_\_\_\_ as reissue application number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable). If the filing date, amendment date, or reissue application number are not included when I execute this Declaration, I authorize the below appointed attorney(s) and/or agents(s) to insert the filing date, amendment date, or reissue application number when they become available.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all that apply.)

- ☐ by reason of a defective specification or drawing.
- ☒ by reason of the patentee claiming less than he had the right to claim in the patent.
- ☐ by reason of other errors.

Errors upon which reissue is based are described as follows:

I believe that the limitation "K<sub>1</sub>, K<sub>2</sub>, and K<sub>3</sub>, are constants determined by . . . a transistor length in the first, second, and third current sources, respectively" renders independent claims 1, 3, 13, and 14 overly narrow. Specifically, these constants may be determined by a size of the transistor other than the transistor, *i.e.*, channel, length. For example, one or more of K<sub>1</sub>, K<sub>2</sub>, and K<sub>3</sub> may be determined by the transistor, *i.e.*, channel, width. Therefore, I have added new independent claims 24 – 27, which omit the "transistor length" limitation.

Because one can describe my invention in terms of a method, I believe that the lack of method claims unduly limits the scope of protection that the '043 patent provides to my invention. Therefore, I have added new method claims 28 – 55.

All errors corrected in this reissue application arose without any deceptive intention on my part.

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: LISA K. JORGENSEN, Reg. No. 34,845; THEODORE E. GALANTHAY, Reg. No. 24,122; ROBERT D. MCCUTCHEON, Reg. No. 38,717; and all attorneys associated with Customer Number 000996.

Correspondence Address: Direct all communications about the application to:

Lisa K. Jorgenson  
STMicroelectronics, Inc.  
1310 Electronics Drive  
Carrollton, Texas 75006-5039  
Phone: (972) 466-6000  
Fax: (972) 466-7044

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof.

I do not know and do not believe that the claimed invention was ever patented or described in any printed publication in any country before my invention thereof.

I do not know and do not believe that the claimed invention was ever patented or made the subject of an inventor's certificate issued prior to the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns.

I do not know and do not believe that the claimed invention was ever patented or described in any printed publication in any country more than one year prior to the filing date of the original U.S. application.

I do not know and do not believe that the claimed invention was ever in public use or on sale in the United States of America more than one year prior to the filing date of the original U.S. application.

I hereby claim the benefit of priority, under 35 U.S.C. § 119 and 35 U.S.C. § 120, of any foreign application(s) for patent or inventor's certificate on which priority was claimed in the above-identified issued patent.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon, or any patent to which this declaration is directed.

William Carl Slemmer  
Full Name of Inventor

USA  
Citizenship

\_\_\_\_\_  
Residence

\_\_\_\_\_  
Post Office Address (if different from Residence)

\_\_\_\_\_  
Inventor's Signature

\_\_\_\_\_  
Date

# CERTIFICATE UNDER 37 C.F.R. § (b)

JCS08 U.S. PTO  
 09/616821  
 07/14/00

Applicant: William Carl Slemmer

Reissue Application No.: Filed: July 14, 2000

For: DIRECT CURRENT SUM BANDGAP VOLTAGE COMPARATOR

STMicroelectronics, Inc., a corporation  
 (Name of Assignee) (Type of Assignee, e.g., corporation,  
 partnership, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

- A. ☒ An assignment from inventor of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_ Frame \_\_\_\_ (copy enclosed).
- B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignees as shown below:
1. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_  
 Frame \_\_\_\_ or for which a copy thereof is attached.
  2. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_  
 Frame \_\_\_\_ or for which a copy thereof is attached.
  3. From: \_\_\_\_\_ To: \_\_\_\_\_  
 The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_  
 Frame \_\_\_\_ or for which a copy thereof is attached.
- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: \_\_\_\_\_

Name: Lisa K. Jorgenson

Title: Director of Intellectual Property

Signature: \_\_\_\_\_

IN THE UNITED STATES PATENT AND TRADE MARK OFFICE

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CERTIFICATE OF MAILING OR TRANSMISSION

"Express Mail" mailing label number: EK111029997US

Date of Deposit: July 14, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR, Section 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Box PATENT APPLICATION, Washington, D.C. 20231 by

  
Signature

ASSENT OF ASSIGNEE



09/616821  
07/14/00

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

STMicroelectronics, Inc. (formerly known as SGS-Thomson Microelectronics, Inc.), assignee of U.S. Patent No. 5,781,043, consents to the filing of reissue application No. \_\_\_\_\_ (or the present application, if filed with the initial application papers) for the reissue of U.S. Patent No. 5,781,043.

STMicroelectronics, Inc.

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Lisa K. Jorgenson  
Director of Intellectual Property